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ABSTRACT OF THE DISCLOSURE

A communication network includes a plurality of antennas and includes among the antennas at least one reconfigurable antenna adapted to serve communication traffic in a respective coverage area, the reconfigurable antenna having a radiation diagram exhibiting a plurality of selectively adjustable gain values for a set of directions, each direction in the set defining a propagation path between the antenna and a portion of the coverage area, determining, for each direction in the set, at least one value of communication traffic and at least one attenuation value over the propagation path, and selectively and independently allotting to each direction in the set a respective gain value as a function of at least one of the value of communication traffic and the attenuation value determined for that direction. The arrangement is adapted for use in communication networks such as second and third generation mobile communication networks employing electrically controllable antennas.